

Introduction

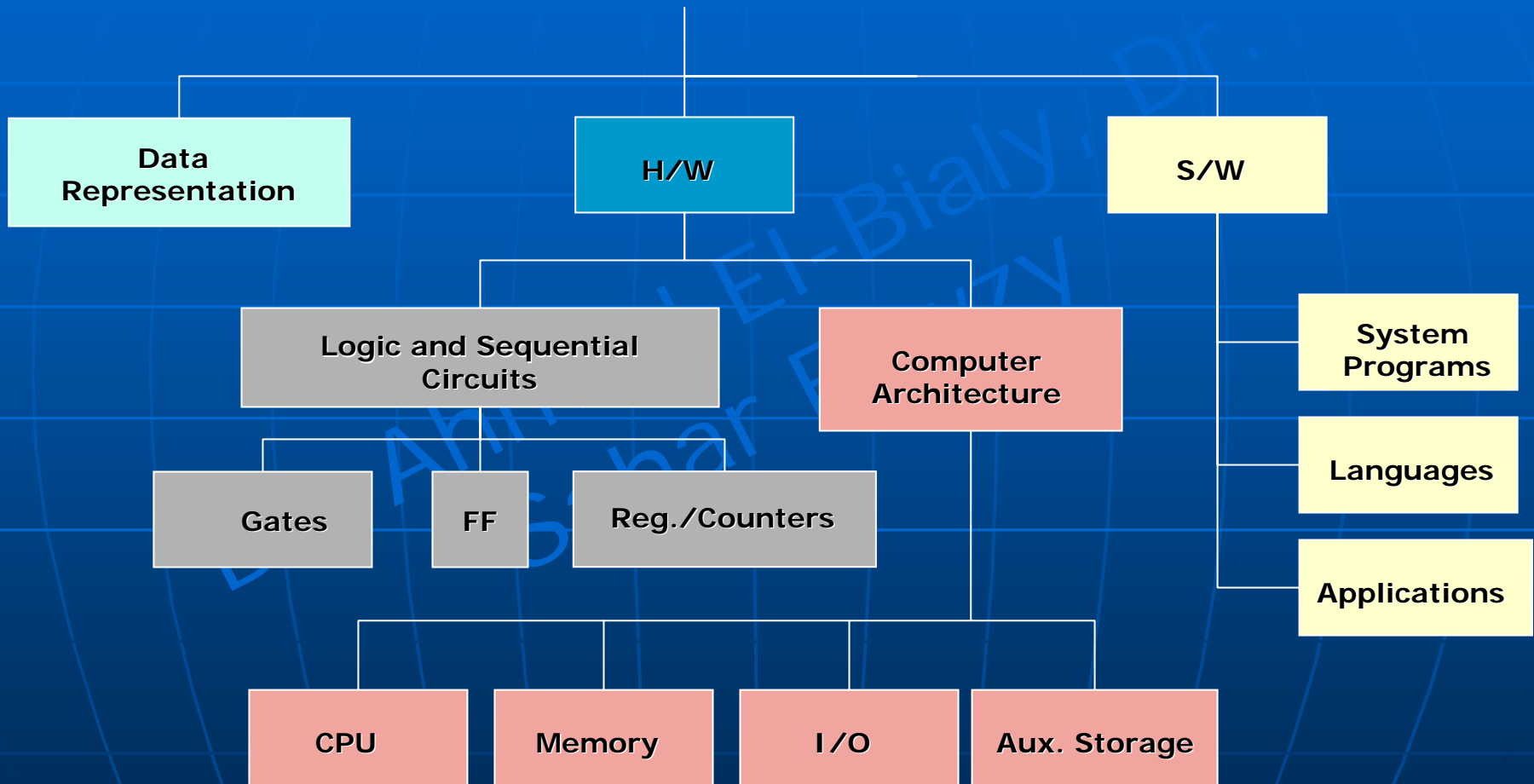
Dr. Ahmed El-Bialy

Dr. Sahar Fawzy

Computers

- Computers are so stupid. They will do exactly what you tell them to, no matter how wrong it is.
- Humans make mistakes, and a computer can repeat one mistake 10 million times before a human can stop it.

Course Description



PC's

PC's at Home:



Keyboard



Mouse



CPU

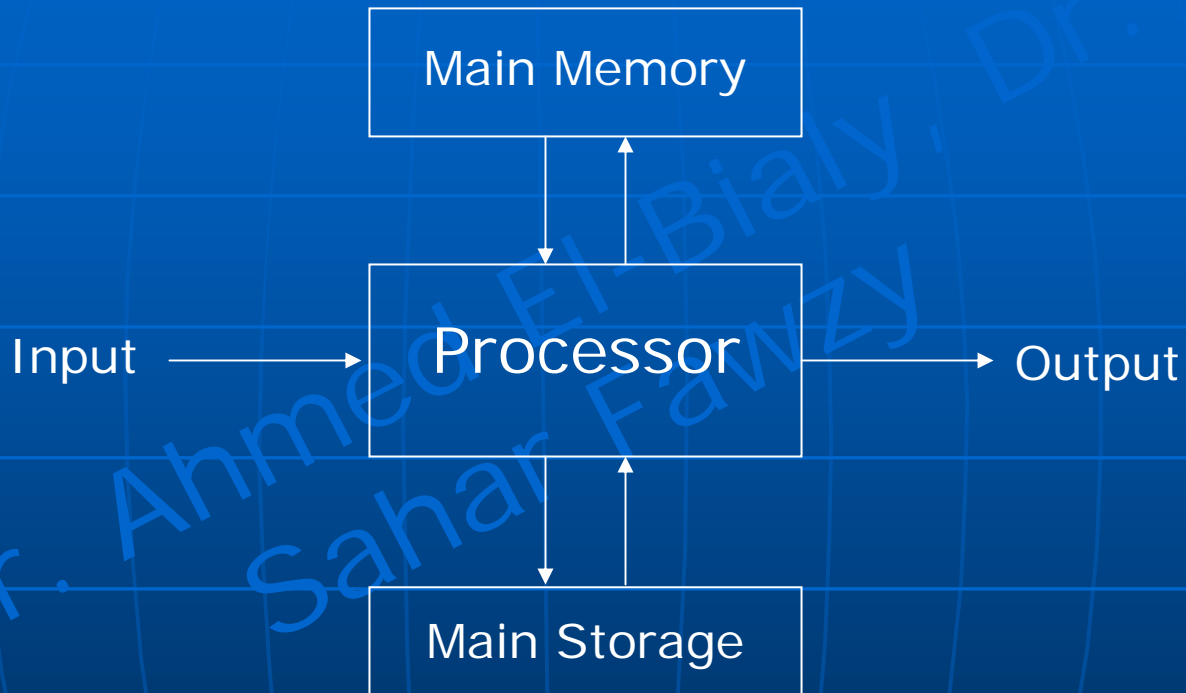


Screen

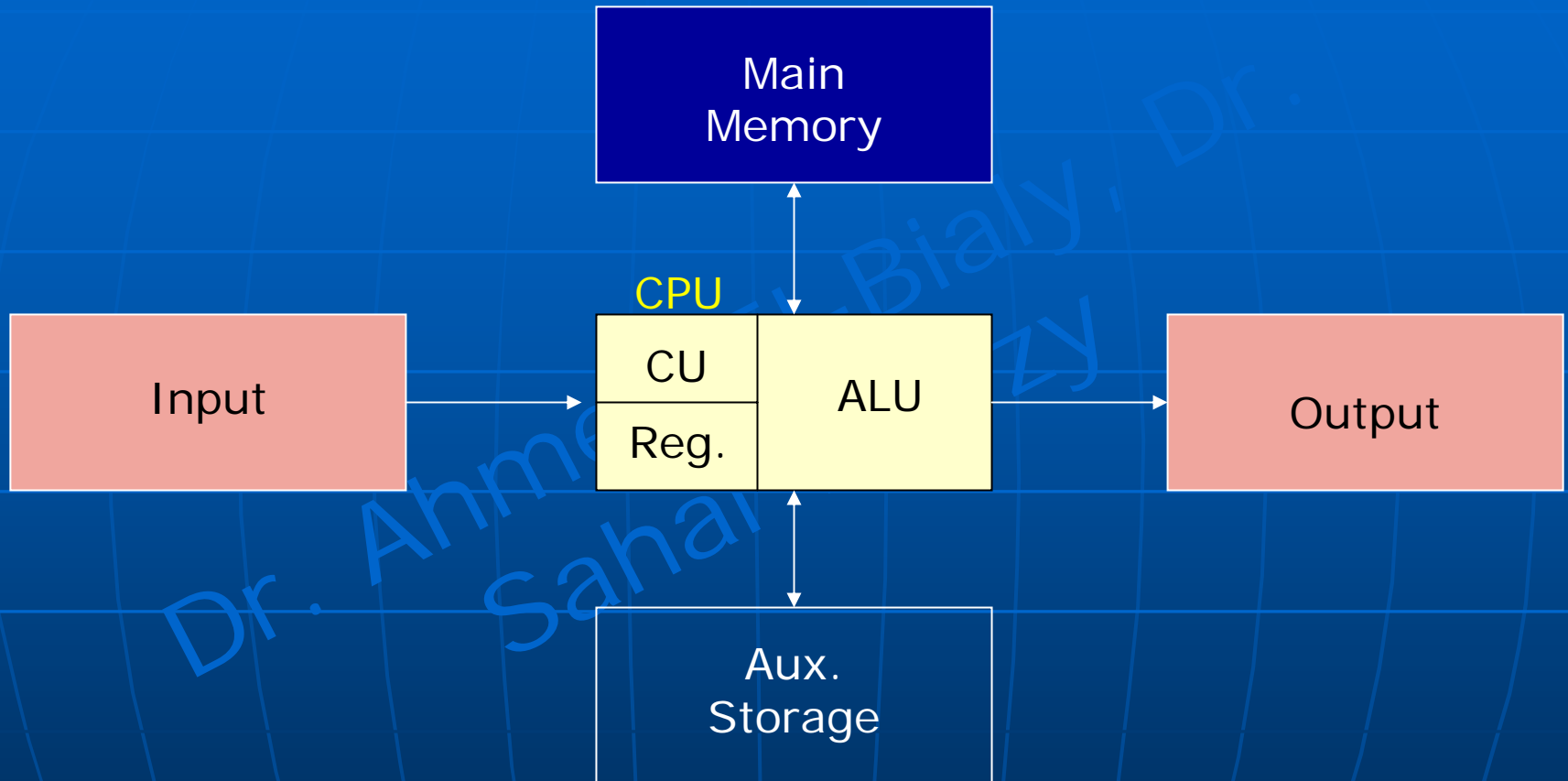
Computers and Applications

- Special Purpose Computers
(Traffic/ Robots/ Micro Controllers...)
- General Purpose Computers
(PC's/ Mini Computers/ Super Computers...)

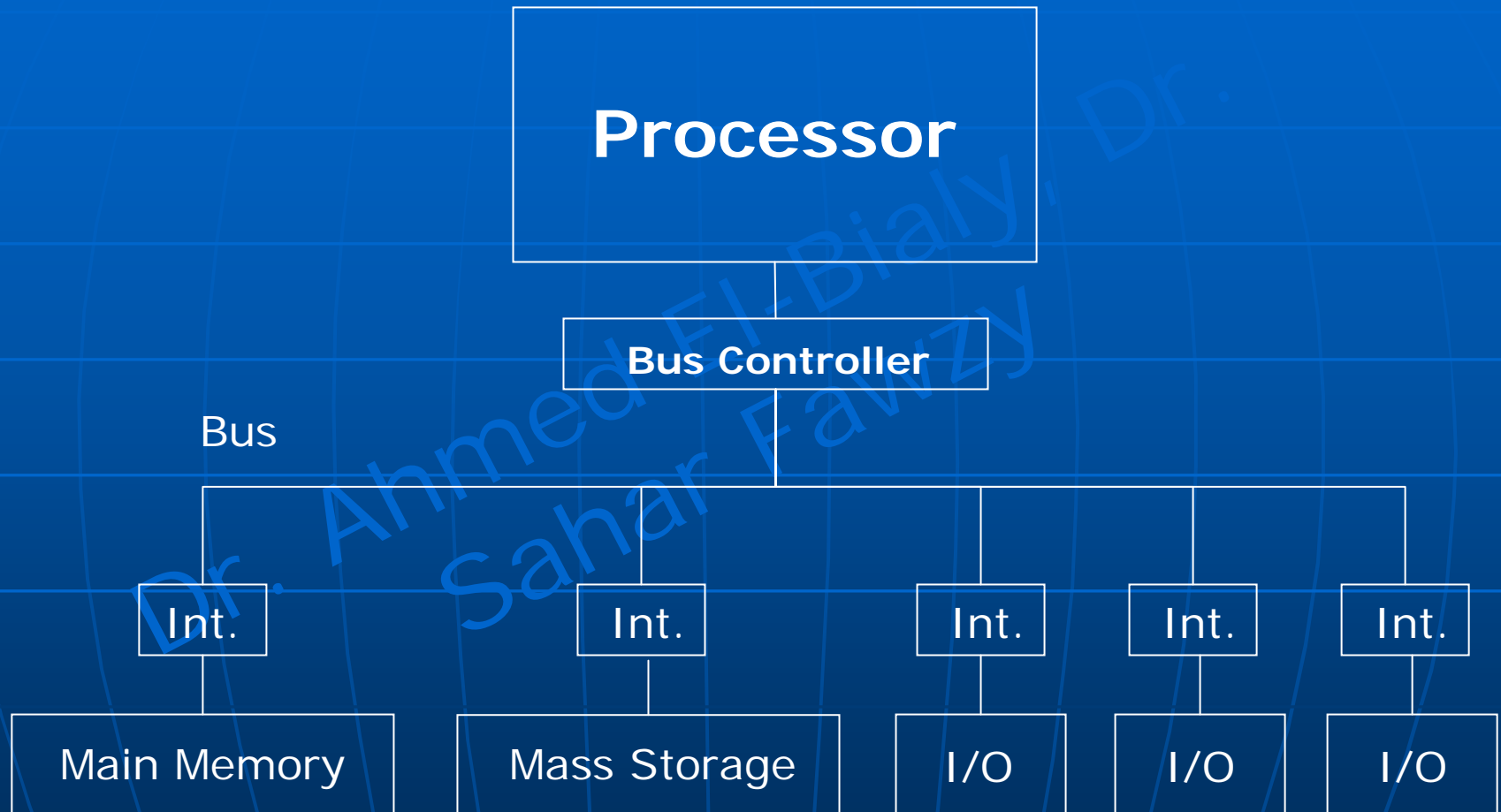
Computer Models



Computer Models

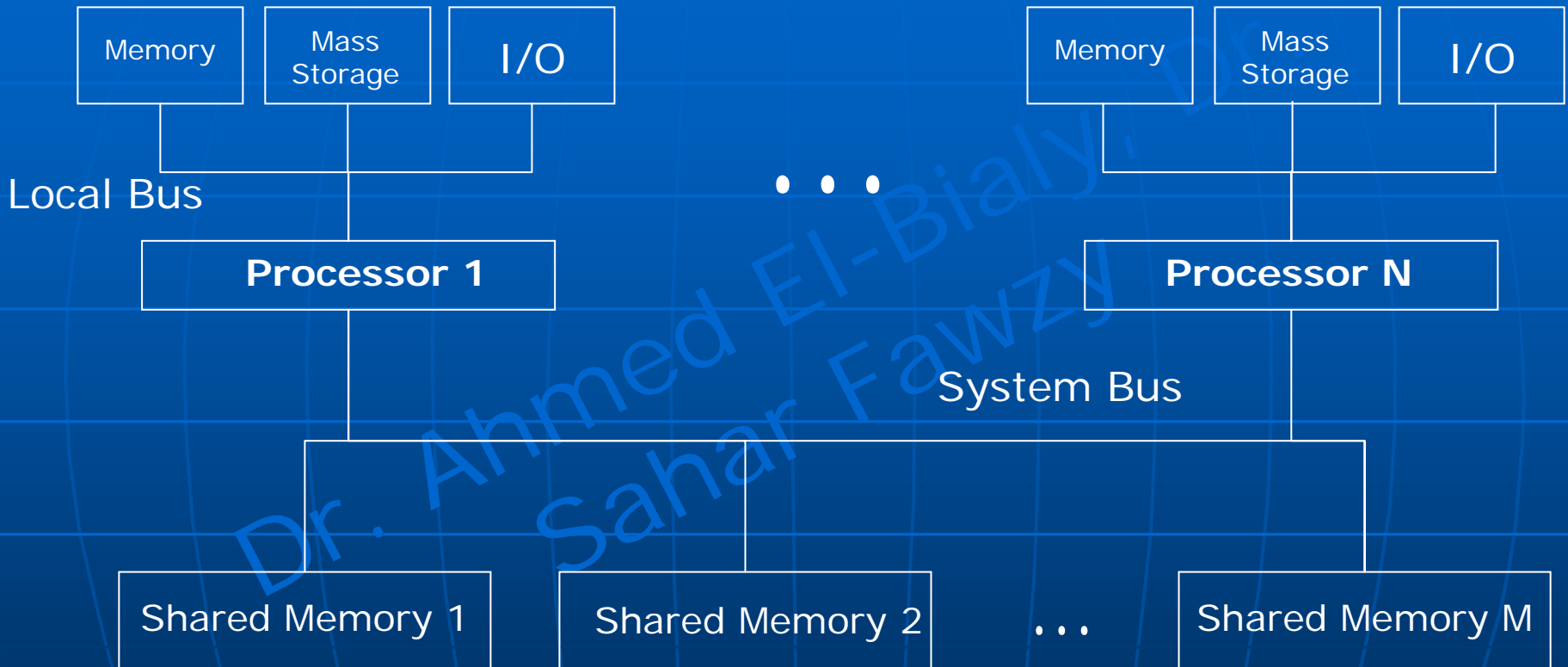


Computer Models



Single Processor

Computer Models



Multi Processor

Computer Organization vs. Architecture

Computer Architecture

Computer Organization

The attributes visible to the programmer.	The operational units and their interconnections
The logical design of the computer system	The physical design of the computer system Control signals,
Instruction set, number of bits used to represent different data types, etc.	memory technology used, etc.

Thank you

see you in

Data Representation